

## Square Dimension as Required for a Flat Base Foundation For a PV Array

**IMPORTANT NOTE:** These values are valid ONLY for the pole heights listed! If any pole lengths taller than the ones listed are used for a given array at a 90° tilt, then these values are invalid and constitute a dangerous situation.

UPM Model	Post Size  (Sch = Schedule, or thickness of pipe wall)	Max Pole Height Above Concrete Base W/ Array @ 90° Tilt	Square Dimension As Required for Flat Base
UPM 3X	4" Sch 40 4½"OD	7'	5' 5"
	4" Sch 80 4½"OD	9' 6"	5' 10"
UPM 4X	4" Sch 40 4½"OD	5' 3"	5' 5"
	4" Sch 80 4½"OD	6' 9"	5' 8"
UPM 6X	5" Sch 40 5⅝"OD	5' 9"	6' 2"
	5" Sch 80 5⅝"OD	8' 3"	6' 11"
UPM 8X	6" Sch 40 6⅝" OD	6' 9"	7' 2"
	6" Sch 80 6⅝" OD	10' 3"	8' 3"
UPM 10X	6" Sch 40 6⅝" OD	See Footnote 1	See Footnote 1
	6" Sch 80 6⅝" OD	8'	8' 2"
UPM 10X HD	6" Sch 40 6⅝" OD	See Footnote 1	See Footnote 1
	6" Sch 80 6⅝" OD	See Footnote 1	See Footnote 1
	8" Sch 40 8⅝" OD	12' 9"	10' 6"
UPM 12X	8" Sch 80 8⅝" OD	15' 9"	11' 3"
	6" Sch 40 6⅝" OD	See Footnote 1	See Footnote 1
	6" Sch 80 6⅝" OD	See Footnote 1	See Footnote 1
UPM 12X HD	8" Sch 40 8⅝" OD	9' 3'	9' 3"
	8" Sch 80 8⅝" OD	13' 9"	10' 6"
	8" Sch 80 8⅝" OD	10' 6"	10' 6"
UPM 15X	10" Sch 40 10¾"OD	12' 9"	11' 2"
	10" Sch 80 10¾"OD	20'	13'
	8" Sch 80 8⅝" OD	See Footnote 1	See Footnote 1
UPM 18X	10" Sch 40 10¾"OD	10' 3"	11' 2"
	10" Sch 80 10¾"OD	16'	13'
	8" Sch 80 8⅝" OD	See Footnote 1	See Footnote 1
UPM 18X	10" Sch 40 10¾"OD	See Footnote 1	See Footnote 1
	10" Sch 80 10¾"OD	13'	12' 11"

**Footnote 1:** There is not adequate clearance for these arrays with this size pipe. Use heavier schedule pipe or larger pipe diameter.